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SECRET

25

IMAGERY
ANALYSIS
DIVISION

[redacted]

# PIR

PHOTOGRAPHIC INTELLIGENCE REPORT

# CHOKE POINTS ON THE HANOI - LAO CAI RAIL LINE NORTH VIETNAM

Declass Review by NGA

CIA/PIR 65010

DATE August 1965

GROUP 1
Excluded from automatic downgrading and declassification

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CIA IMAGERY ANALYSIS DIVISION

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# CHOKE POINTS ON THE HANOI - LAO CAI RAIL LINE

1. The rail line from Hanoi to Yen Bai is situated on the Red River delta and is elevated on a levee in many places. From Yen Bai northwestward the rail line leaves the Red River delta and follows the Red River through rough terrain. This section of the rail line is replete with many small bridges crossing streams that flow from the surrounding mountains. There are no tunnels on this rail line.

2. The following table gives details of bridges 50 feet and over on the Hanoi - Lao Cai Railroad Line. These bridges are located on the enclosed map (Figure 1), by numbers coinciding with the numerical sequence of the aforementioned table.

3. All measurements have been made by the CIA/IAD/IB project analyst. They should be considered as approximate and must not be taken as official NPIC mensuration data compiled by the Technical Intelligence Division, NPIC.



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| BRIDGE NO. | LOCATION | TOTAL LENGTH (FEET) | SPANS NO. | SPANS TYPE | REMARKS |
|---|---|---|---|---|---|
| 1 | At Chinese border just N. of Lao Cai 22 30N - 103 58E | 480 | 6 | Deck truss and deck girder | Combination rail-highway bridge |
| 2 | 1.5 m. SE of Lao Cai 22 29N - 103 59E | 55 | 3 | Deck girder | |
| 3 | 2.1 m. SE of Lao Cai 22 28N - 104 00E | 50 | 3 | Deck girder | |
| 4 | 5.3 m. SE of Lao Cai 22 27N - 104 02E | 110 | 3 | Half-through truss and deck girder | |
| 5 | 7.0 m. SE of Lao Cai 22 26N - 104 02E | 70 | 3 | Deck girder | |
| 6 | 7.5 m. SE of Lao Cai 22 25N - 104 02E | 700 | 7 | Through truss and deck girder | This bridge is not on the Hanoi-Lao Cai Rail Line, but is on a spur crossing the Red River |
| 7 | 7.9 m. SE of Lao Cai 22 25N - 104 03E | 65 | 3 | Deck girder | |
| 8 | 8.9 m. SE of Lao Cai 22 25N - 104 04E | 65 | 3 | Deck girder | |
| 9 | 9.7 m. SE of Lao Cai 22 24N - 105 05E | 65 | 3 | Deck girder | |
| 10 | 11.1 m. SE of Lao Cai 22 24N - 105 06E | 70 | 3 | Deck girder | |


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| BRIDGE NO. | LOCATION | TOTAL LENGTH (FEET) | SPANS | | REMARKS |
|---|---|---|---|---|---|
| | | | NO. | TYPE | |
| 11 | 12.0 m. SE of Lao Cai 22 23N - 104 07E | 90 | 3 | Deck girder | |
| 12 | 12.7 m. SE of Lao Cai 22 22N - 104 07E | 110 | 3 | Half-through truss and deck girder | |
| 13 | 13.8 m. SE of Lao Cai 22 22N - 104 08E | 55 | 3 | Deck girder | |
| 14 | 15.0 m. SE of Lao Cai 22 22N - 104 09E | 100 | 3 | Half-through truss and deck girder | |
| 15 | 16.1 m. SE of Lao Cai 22 21N - 104 09E | 50 | 3 | Deck girder | |
| 16 | 17.0 m. SE of Lao Cai 22 20N - 104 10E | 120 | 3 | Half-through truss and deck girder | |
| 17 | 19.7 m. SE of Lao Cai 22 19N - 104 12E | 130 | 3 | Half-through truss and deck girder | |
| 18 | 21.8 m SE of Lao Cai 22 17N - 104 13E | 85 | 3 | Deck girder | |
| 19 | 24.0 m. SE of Lao Cai 22 16N - 104 15E | 120 | 3 | Half-through truss and deck girder | |
| 20 | 25.4 m. SE of Lao Cai 22 15N - 104 16E | 90 | 3 | Half-through truss and deck girder | |
| 21 | 26.7 m. SE of Lao Cai 22 15N - 104 17E | 130 | 3 | Half-through truss and deck girder | |



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| BRIDGE NO. | LOCATION | TOTAL LENGTH (FEET) | SPANS | | REMARKS |
|---|---|---|---|---|---|
| | | | NO. | TYPE | |
| 22 | 27.2 m. SE of Lao Cai<br>22 14N - 104 17E | 105 | 3 | Half-through truss and deck girder | |
| 23 | 29.0 m. SE of Lao Cai<br>22 13N - 104 18E | 140 | 3 | Half-through truss and deck girder | |
| 24 | 29.4 m. SE of Lao Cai<br>22 13N - 104 18E | 90 | 3 | Half-through truss and deck girder | |
| 25 | 30.4 m. SE of Lao Cai<br>22 12N - 104 19E | 60 | 3 | Deck girder | |
| 26 | 31.0 m. SE of Lao Cai<br>22 12N - 104 20E | 90 | 3 | Half-through truss and deck girder | |
| 27 | 33.7 m. SE of Lao Cai<br>22 10N - 104 21E | 90 | 3 | Half-through truss and deck girder | |
| 28 | 35.2 m. SE of Lao Cai<br>22 09N - 104 22E | 55 | 3 | Deck girder | |
| 29 | 36.3 m. SE of Lao Cai<br>22 08N - 104 25E | 200 | 4 | Half-through truss and deck girder | |
| 30 | 40.7 m. SE of Lao Cai<br>22 06N - 104 26E | 100 | 3 | Deck girder | |
| 31 | 41.3 m. SE of Lao Cai<br>22 06N - 104 27E | 90 | 3 | Deck girder | |





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| BRIDGE NO. | LOCATION | TOTAL LENGTH (FEET) | SPANS NO. | SPANS TYPE | REMARKS |
|---|---|---|---|---|---|
| 32 | 42.8 m. SE of Lao Cai 22 05N - 104 27E | 80 | 3 | Deck girder | |
| 33 | 43.3 m. SE of Lao Cai 22 04N - 104 27E | [redacted] | 3 | Deck girder | |
| 34 | 43.6 m. SE of Lao Cai 22 04N - 104 27E | 105 | 3 | Deck girder | |
| 35 | 35.0 m. NW of Yen Bai 22 03N - 104 29E | [redacted] | 3 | Half-through truss and deck girder | |
| 36 | 34.0 m. NW of Yen Bai 22 02N - 104 30E | [redacted] | 3 | Deck girder | |
| 37 | 33.5 m. NW of Yen Bai 22 02N - 104 31E | [redacted] | 3 | Half-through truss and deck girder | |
| 38 | 33.0 m. NW of Yen Bai 22 02N - 104 31E | 115 | 3 | Half-through truss and deck girder | |
| 39 | 31.0 m. NW of Yen Bai 22 01N - 104 32E | [redacted] | 3 | Through truss and deck girder | |
| 40 | 30.1 m. NW of Yen Bai 22 01N - 104 32E | 80 | 3 | Half-through truss and deck girder | |
| 41 | 29.4 m NW of Yen Bai 22 01N - 104 33E | 105 | 3 | Half-through truss and deck girder | |



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| BRIDGE NO. | LOCATION | TOTAL LENGTH (FEET) | SPANS | | REMARKS |
|---|---|---|---|---|---|
| | | | NO. | TYPE | |
| 42 | 28.0 m. NW of Yen Bai<br>22 00N - 104 34E | 75 | 3 | Deck girder | |
| 43 | 27.0 m. NW of Yen Bai<br>21 59N - 104 35E | [redacted] | 3 | Half-through truss and deck girder | |
| 44 | 25.0 m. NW of Yen Bai<br>21 57N - 104 37E | 105 | 3 | Half-through truss and deck girder | |
| 45 | 23.5 m. NW of Yen Bai<br>21 57N - 104 37E | 110 | 3 | Half-through truss and deck girder | |
| 46 | 21.8 m. NW of Yen Bai<br>21 56N - 104 37E | 105 | 3 | Half-through truss and deck girder | |
| 47 | 20.5 m. NW of Yen Bai<br>21 55N - 104 39E | 100 | 3 | Half-through truss and deck girder | |
| 48 | 18.9 m. NW of Yen Bai<br>21 54N - 104 40E | 50 | 1 | Half-through truss | |
| 49 | 17.5 m. NW of Yen Bai<br>21 53N - 104 41E | 90 | 3 | Half-through truss and deck girder | |
| 50 | 15.0 m. NW of Yen Bai<br>21 52N - 104 43E | 70 | 3 | Deck girder | |
| 51 | 14.7 m. NW of Yen Bai<br>21 51N - 104 43E | [redacted] | 3 | Deck girder | |
| 52 | 14.5 m. NW of Yen Bai<br>21 51N - 104 43E | 85 | 3 | Deck girder | |



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| BRIDGE NO. | LOCATION | TOTAL LENGTH (FEET) | SPANS NO. | SPANS TYPE | REMARKS |
|---|---|---|---|---|---|
| 53 | 13.8 m. NW of Yen Bai 21 51N - 104 44E | 75 | 3 | Deck girder | |
| 54 | 12.8 m. NW of Yen Bai 21 50N - 104 45E | 115 | 3 | Deck girder | |
| 55 | 11.0 m. NW of Yen Bai 21 49N - 104 46E | 140 | 2 | Half-through truss and deck girder | |
| 56 | 8.2m. NW of Yen Bai 21 48N - 104 48E | 70 | 3 | Deck girder | |
| 57 | 5.7 m. NW of Yen Bai 21 46N - 104 50E | 80 | 3 | Deck girder | |
| 58 | 3.0 m. NW of Yen Bai 21 44N - 104 50E | 80 | 1 | Probable half-through truss | |
| 59 | At Yen Bai 21 42N - 104 53 | 40 | 1 | Deck girder | |
| 60 | 2.0 m. SE of Yen Bai 21 42N - 104 54E | 95 | 3 | Half-through truss and deck girder | |
| 61 | 5.0 m. SE of Yen Bai 21 39N - 104 57E | [redacted] | 3 | Deck girder | |
| 62 | 9.2 m. SE of Yem Bai 21 36N - 104 58E | 85 | 3 | Deck girder | |
| 63 | 12.5 m. SE of Yen Bai 21 34N - 105 00E | 100 | 3 | Half-through truss and deck girder | |



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| BRIDGE NO. | LOCATION | TOTAL LENGTH (FEET) | SPANS NO. | SPANS TYPE | REMARKS |
|---|---|---|---|---|---|
| 64 | 14.0 m. SE of Yen Bai 21 33N - 105 01E | 95 | 3 | Half-through truss and deck girder | |
| 65 | 16.0 m. SE of Yen Bai 21 31N - 105 02E | 115 | 3 | Deck girder | |
| 66 | 18.2 m. SE of Yen Bai 21 30N - 105 04E | [redacted] | 3 | Half-through truss and deck girder | |
| 67 | 47.5 m. NW of Hanoi 21 24N - 105 14E | 80 | 1 | Half-through truss | |
| 68 | 32.0 m. NW of Hanoi 21 18N - 105 27E | 970 | 4 | Through truss | |
| 69 | 30.8 m. NW of Hanoi 21 17N - 105 28E | 120 | 3 | Half-through truss and deck girder | |
| 70 | 24.5 m. NW of Hanoi 21 18N - 105 37E | 65 | 3 | Deck girder | |
| 71 | 21.0 m. NW of Hanoi 21 16N - 105 40E | 95 | 3 | Half-through truss and deck girder | |
| 72 | 18.8 m. NW of Hanoi 21 15N - 105 41E | 220 | 4 | Through truss and deck girder | |
| 73 | 15.0 m. NW of Hanoi 21 13N - 105 44E | 140 | 3 | Half-through truss | |
| 74 | 6.5 m. NE of Hanoi 21 06N - 105 55E | 120 | 3 | Deck girder | |


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| BRIDGE NO. | LOCATION | TOTAL LENGTH (FEET) | SPANS | | REMARKS |
|---|---|---|---|---|---|
| | | | NO. | TYPE | |
| 75 | 5.0 m. NE of Hanoi<br>21 04N - 105 54E | [redacted] | 5 | Through truss | Combination rail-highway bridge |
| 76 | Just N. of Hanoi<br>21 02N - 105 52E | 5,520 | 19 | Through truss | Combination rail-highway bridge |



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REFERENCES

25X1

PHOTOGRAPHY

[redacted]

MAPS

AMS, Series L509, Sheet NF 48-11
Edition 2, (UNCLASSIFIED)

AMS, Series L509, Sheet NF 48-10
Edition I (UNCLASSIFIED)

AMS, SERIES L509, Sheet NF 48-6
Edition I (UNCLASSIFIED)

REQUIREMENT

C-C15-82,793

PROJECT

30103-6




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[redacted] 25X1

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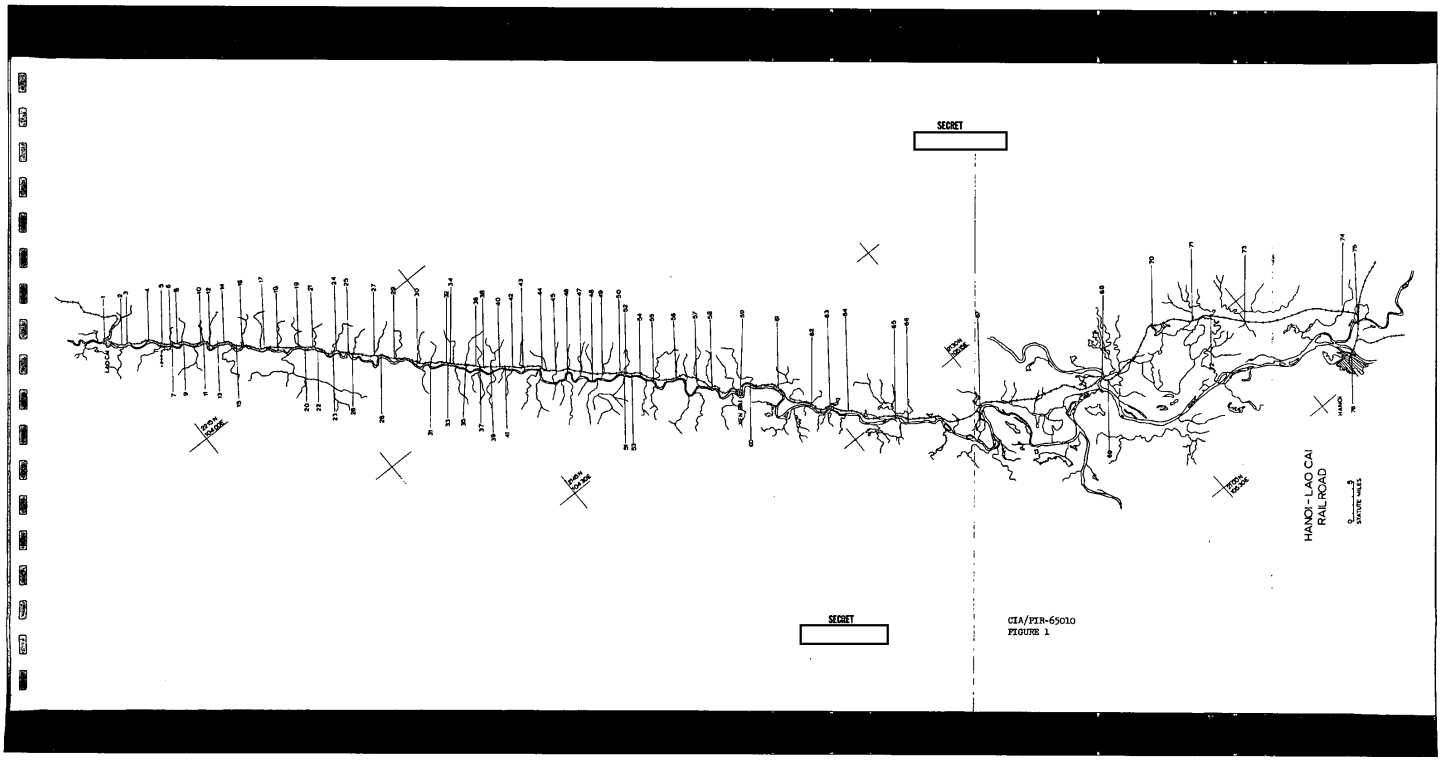


CIA/PIR-65010
FIGURE 1

25X1

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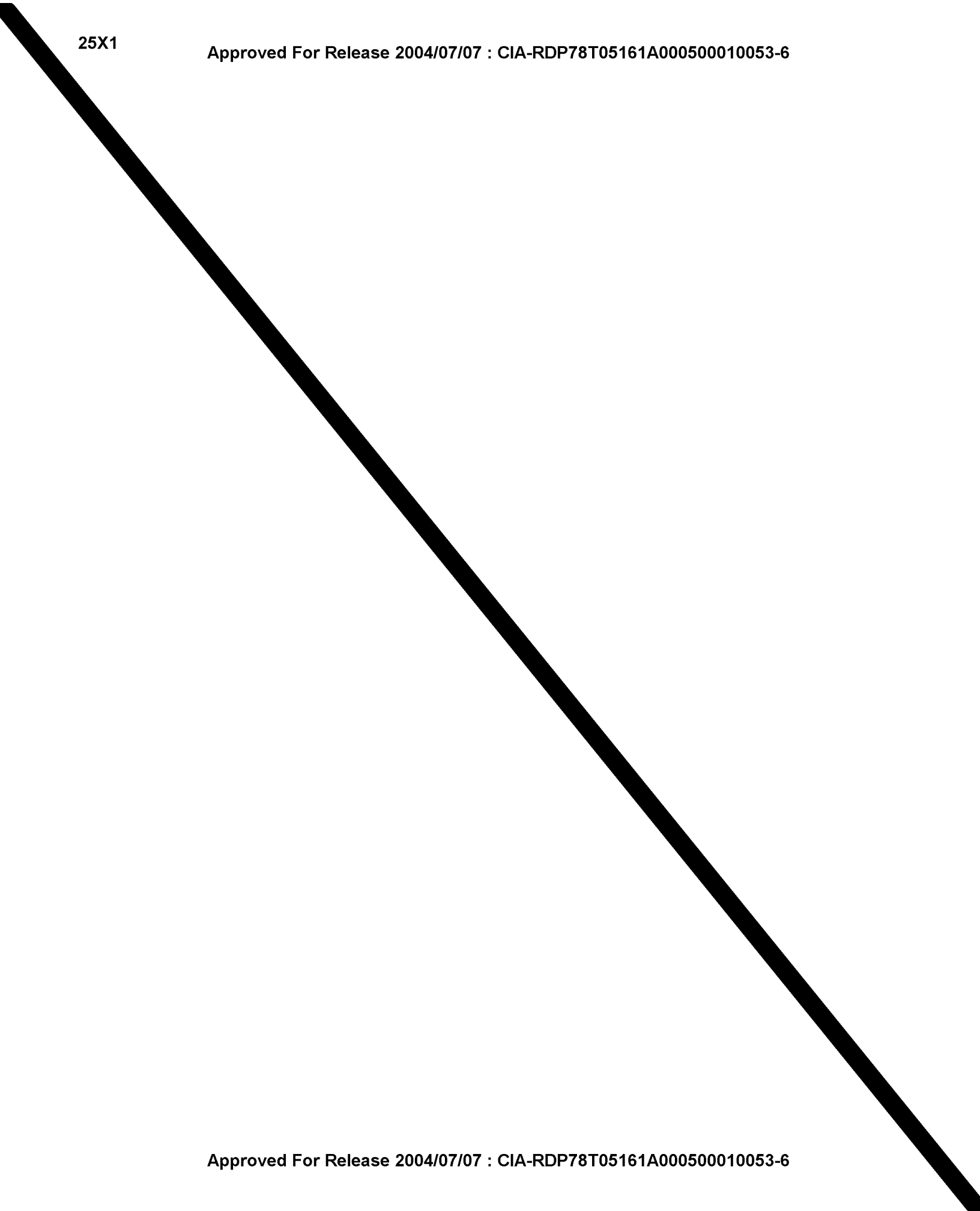

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